

CLAIMS

I claim:

1. In an integrated computer telephony system including a call routing system, a method for routing a call based on the identity of
5 an originating source of said call, comprising the steps of:

maintaining a plurality of routing lists, each said routing lists being associated with at least one originating source and comprising a plurality of directory numbers;

10 receiving said call from said originating source;
selecting a routing list associated with said originating source from said plurality of routing lists; and
directing said call according to said routing list.

2. The method of claim 1, wherein said selecting a routing list step further comprises the steps of:

15 detecting a directory number of said originating source;
retrieving an associated routing list for said directory number; and
retrieving a default routing list if said associated routing list does not exist.

3. The method of claim 1, wherein said selecting a routing list step further comprises the steps of:

requesting said originating source to provide an identification code;

5 receiving said identification code;

retrieving an associated routing list for said identification code; and

retrieving a default routing list if said associated routing list does not exist.

10 4. The method of claim 1, wherein said integrated computer telephony system provides a calling line identification service and said selecting a routing list step further comprises the steps of:

receiving a calling line identification for said originating party;

15 retrieving an associated routing list for said calling line identification; and

retrieving a default routing list if said associated routing list does not exist.

5. In a program module responsive to receiving communications for a personal number subscriber, a method for routing a communication to said subscriber, comprising the steps of:

- maintaining plurality of routing lists, each said routing list being associated with at least one originating party and at least one personal number and comprising a plurality of directory numbers;
- receiving a communication directed to a personal number from an originating party;
- selecting a routing list associated with said personal number and said originating party; and
- routing said call in accordance with said routing list.

6. The method of claim 5, wherein said selecting a routing list step further comprises the steps of:

- detecting a directory number for said originating party;
- 15 retrieving an associated routing list for said directory number; and
- retrieving a default routing list if said associated routing list does not exist.

7. The method of claim 5, wherein said selecting a routing list step further comprises the steps of:

- requesting said originating party to enter an identification code;
- receiving said identification code;
- retrieving an associated routing list for said 25 identification code and said personal number; and
- retrieving a default routing list if said associated routing list does not exist.

8. The method of claim 7, wherein said selecting a routing list step further comprises selecting said routing list from a group of routing lists identified for said originating party based on the day of the week said communication is received.

5 9. The method of claim 7, wherein said selecting a routing list step further comprises selecting said routing list from a group of routing lists identified for said originating party based on time of day said communication is received.

10. The method of claim 7, wherein said selecting a routing list step further comprises selecting said routing list from a group of routing lists identified for said originating party based on the day of the week and the time of the day said communication is received.

11. A computer system for routing calls for a personal number subscriber based on the CLID of an originator, comprising:
 - a processing unit;
 - a memory storage device operative to store a plurality of routing lists for said personal number subscriber, each said routing list comprising a plurality of directory numbers;
 - 5 a receiving interface device coupled to said processing unit for receiving calls;
 - a transmitting interface device coupled to said processing unit for placing calls;
 - 10 said processing unit being operative to:
 - receive a call on said interface device, said call being directed to said personal number subscriber;
 - detect a CLID for said originating party;
 - 15 retrieve an associated routing list from said memory storage device for said CLID;
 - retrieve a default routing list from said memory storage device if said associated routing list does not exist; and
 - direct said call setup request in accordance with said 20 routing list.

12. The computer system of claim 11, wherein said processing unit directs said call setup request by:

- (a) selecting a first directory number from said routing list;
- 5 (b) routing said call to said first directory number;
- (c) receiving communication disposition information from said first directory number; and
- (d) if said communication disposition indicates said routing step failed, selecting a next directory number from said routing list
- 10 and repeating steps (b)-(d) at said next directory number.

13. A computer-readable medium on which is stored a computer program for selecting a routing list based on an identifying criteria, and a data file containing a plurality of routing lists for a called party, said computer program comprising instructions which, when 5 executed by a computer, perform the steps of:

receiving a communication for said called party;
obtaining said identifying criteria;
retrieving a routing list from said data file based on said identifying criteria; and
10 directing said communication in accordance with said routing list.

14. The computer-readable medium recited in claim 13, wherein said identifying criteria comprises a CLID message and said step of obtaining an identifying criteria further comprises receiving said 15 CLID message.

15. The computer-readable medium recited in Claim 13, wherein said identifying criteria comprises a DTMF code sequence and said step of obtaining an identifying criteria further comprises detecting said DTMF code sequences.

16. The computer-readable medium recited in Claim 13, wherein said identifying criteria comprises a DTMF code sequence and said step of obtaining an identifying criteria further comprises the steps of:

5 providing keypad menu selection options to said called party; and

receiving a DTMF signal corresponding to a keypad menu selection from said called party.